



IN THE UNITED STATES
PATENT AND TRADEMARK OFFICE

PATENT APPLICATION

GP/2184
#2
3/6/02
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JUN 22 2001

Applicants: **Vlad MITLIN, Richard G.C. WILLIAMS**

Technology Center 2100

Case: **3Com-72/1 (3292.TDC.US.P)**

Serial No.: **09/741,636**

Filed: **December 20, 2000**

Group Art Unit: **2184**

Confirmation No.: **5636**

Examiner:

Title: **PERFORMANCE EVALUATION OF MULTICARRIER CHANNELS**

COMMISSIONER FOR PATENTS
Washington, D.C. 20231

S I R:

INFORMATION DISCLOSURE STATEMENT

The applicants respectfully request that the following references be considered in the examination of the above-identified application. A copy of each reference is enclosed.

United States Patents

<u>Patent Number</u>	<u>Inventor</u>	<u>Date Issued</u>	<u>Class</u>
AA. 6,075,821	Kao et al	June 13, 2000	375/260
✓AB. 6,072,779	Tzannes et al	June 6, 2000	370/252
✓AC. 6,064,692	Chow	May 16, 2000	375/219
✓AD. 5,852,633	Levin et al	Dec. 22, 1998	375/260
✓AE. 5,479,447	Chow et al	Dec. 26, 1995	375/260



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Publications

- AF. D. Bertsekas et al, Data Networks, (©1992, Prentice Hall), pages 64-86 and 149-240.
- ✓ AG. John A.C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, May 1990, pages 5-14.
- ✓ AH. Walter Y. Chen, DSL: Simulation Techniques and Standards Development for Digital Subscriber Line Systems, (©1998, MacMillan Technical Publishing), pages 465, 11, and 119-121.
- AI. Peter S. Chow, "Bandwidth Optimized Digital Transmission Techniques for Spectrally Shaped Channels with Impulse Noise", Ph.D. thesis, Stanford University, May 1993, pages ii-187.
- ✓ AJ. Chow et al, "A Practical Discrete Multitone Transceiver Loading Algorithm for Data Transmission over Spectrally Shaped Channels", IEEE Transactions on Communications, Vol. 43, No. 2/3/4, February/March/April 1995, pages 773-775.
- ✓ AK. N.G. de Bruijn, Asymptotic Methods in Analysis, (©1981, Dover Publications, Inc.), pages 22-23.
- ✓ AL. F.J. MacWilliams et al, Chapter 10, Section 10, "Reed-Solomon and Justesen Codes - Decoding RS codes", The Theory of Error-Correcting Codes, (©1977, Elsevier Science), page 306.
- ✓ AM. V.S. Mitlin, Nonlinear Dynamics of Reservoir Mixtures, (©1993, CRC Press), pages 173-177.
- ✓ AN. J. Proakis, "Digital Communications", McGraw-Hill, New York, 1995, pages 260-263, 278-282, 441, 464-67.
- ✓ AO. ITU Recommendation G.992.1: Asymmetric Digital Subscriber Line (ADSL) Transceivers, Geneva, 1999, pages i-240.



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AP. ✓ ITU Recommendation G.992.2: Splitterless Asymmetric Digital Subscriber Line (ADSL) Transceivers, Geneva, 1999, pages i-165.

AQ. ✓ Numerical Recipes in C: The Art of Scientific Computing, Cambridge, MA, 1992, pages 212-221.

REMARKS

Under rule 37 C.F.R. 1.98(a) (effective March 16, 1992), since all of the above-cited references are in the English language, the applicants submit that no specific comments are necessary for any of these.

For the Examiner's convenience, the applicants have attached a completed modified Form PTO/SB/08A&B form hereto.

Respectfully submitted,

June 15, 2001

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(732) 530-6671

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CERTIFICATE OF MAILING under 37 C.F.R. 1.8(a)

I hereby certify that this correspondence is being deposited on **June 15, 2001**, with the United States Postal Service as first class mail, with sufficient postage, in an envelope addressed to the Commissioner for Patents, Washington, D.C. 20231.

Robert L. McQuinn
Signature

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PTO/SB/08A (08-00)

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Substitute for form 1449A/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet

1

of

3

Complete if Known

Application Number

09/741,636

Filing Date

December 20, 2000

First Named Inventor

Vlad MITLIN

Group Art Unit

2184

Examiner Name

Attorney Docket Number

3Com-72/1 (3292.TDC.US.P)

U.S. PATENT DOCUMENTS

[illegible]

FOREIGN PATENT DOCUMENTS

[illegible]

Examiner
Signature

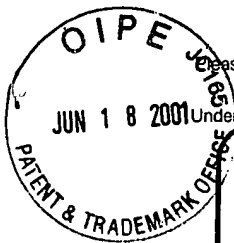
Date _____

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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO			Complete if Known		
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)			Application Number	09/741,636	
			Filing Date	December 20, 2000	
			First Named Inventor	Vlad MITLIN	
			Group Art Unit	2184	
			Examiner Name		
Sheet	2	of	3	Attorney Docket Number	3Com-72/1 (3292.TDC.US.P)

OTHER PRIOR ART – NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	AF	D. Bertsekas et al, Data Networks, (©1992, Prentice Hall), pages 64-86 and 149-240.	
	AG	John A.C. Bingham, "Multicarrier Modulation for Data Transmission: An Idea Whose Time Has Come", IEEE Communications Magazine, May 1990, pages 5-14.	
	AH	Walter Y. Chen, DSL: Simulation Techniques and Standards Development for Digital Subscriber Line Systems, (©1998, MacMillan Technical Publishing), pages 465, 11, and 119-121.	
	AI	Peter S. Chow, "Bandwidth Optimized Digital Transmission Techniques for Spectrally Shaped Channels with Impulse Noise", Ph.D. thesis, Stanford University, May 1993, pages ii-187.	
	AJ	Chow et al, "A Practical Discrete Multitone Transceiver Loading Algorithm for Data Transmission over Spectrally Shaped Channels", IEEE Transactions on Communications, Vol. 43, No. 2/3/4, February/March/April 1995, pages 773-775.	
	AK	N.G. de Bruijn, Asymptotic Methods in Analysis, (©1981, Dover Publications, Inc.), pages 22-23.	
	AL	F.J. MacWilliams et al, Chapter 10, Section 10, "Reed-Solomon and Justesen Codes - Decoding RS codes", The Theory of Error-Correcting Codes, (©1977, Elsevier Science), page 306.	
	AM	V.S. Mitlin, Nonlinear Dynamics of Reservoir Mixtures, (©1993, CRC Press), pages 173-177.	
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Examiner Signature		Date Considered	Technology Center 2100
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Substitute for form 1449B/PTO

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(use as many sheets as necessary)

Sheet	3	of	3
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Complete if Known

Application Number	09/741,636
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Filing Date	December 20, 2000
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First Named Inventor	Vlad MITLIN
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Group Art Unit	2184 2133
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Examiner Name

Attorney Docket Number	3Com-72/1 (3292.TDC.US.P)
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OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS

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Examiner
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(3c72.1-1449/64/ks)